

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1 – 15 (canceled)

Claim 16. (original) A device for producing a saturated or concentrated solution of iodine, comprising:

an iodine vapor-permeable membrane sealed by a melt sealer or adhesive means into a sachet or pouch;

an iodine source contained within said sachet or pouch;

an iodine-receiving medium;

a vessel containing the iodine-receiving medium;

a suitable means for providing controlled flow, where desired, of the iodine-receiving medium;

a suitable means of supplying agitation of the receiving medium;

a suitable means of heating or cooling and temperature control of the receiving medium, where required for the intended end-use;

a suitable means for controlling the pressure in the receiving medium, where required for the intended end-use; and

a suitable means for removing a measured volume of iodine solution from the vessel in batch or continuous mode.

Claim 17. (original) The device of claim 16 wherein the iodine vapor-permeable membrane is an inorganic material.

Claim 18. (original) The device of claim 16 wherein the iodine vapor-permeable membrane is single ply.

Claim 19. (original) The device of claim 16 wherein the iodine vapor-permeable membrane is multi-ply construction wherein the plies are the same or different composition and structure.

Claim 20. (original) The device of claim 16 wherein the iodine vapor-permeable membrane is a continuous film.

Claim 21. (original) The device of claim 16 wherein the iodine vapor-permeable membrane is non-woven.

Claim 22. (original) The device of claim 16 wherein the iodine vapor-permeable membrane is a nanostructure.

Claim 23. (original) The device of claim 16 wherein the iodine vapor-permeable membrane is perforated.

Claim 24. (original) The device of claim 16 wherein the membrane material is substantially non-permeable to solid iodine.

Claim 25. (original) The device of claim 16 that can produce controlled or blended iodine solutions of any strength up to the saturation level.

Claims 26 – 31 (canceled)